

ABSTRACT OF THE DISCLOSURE

5 A gray level correction device for a liquid crystal display is disclosed for applications in transflective liquid crystal displays. When the display image is switched between a transitive type and a reflective type, or the conditions of the external light source changes, the γ curve of the display is switched by a γ -curve correction device. Multi-mode γ curves are designed according to the variation of the source light. By comparing with a built-in database, the γ curve is switched to adjust the gray level to an optimized value, thereby obtaining the best display image in the transitive type and reflective type or the contrast in different environments.